

Application No. 09/831,754
Reply to Office Action mailed July 3, 2003
Replacement Sheet

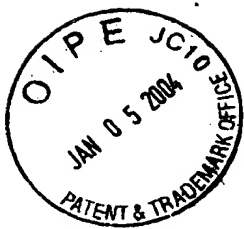
FIG. 14A

SEQ ID NO: 2

Seladin-1 cDNA sequence

Seladin-1 Length: 4248 April 28, 1998 14:10 Type: N Check: 8184 ..

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101 tggagcccg cgtgtcgtcg gccgtgtgcy cgtgtctctt cctgtgtggy
151 gtgcgcctga aggggctgga gttcgtgctc atccaccagc gctgggtgtt
201 cgtgtgcctc ttcttcctgc cgtctcgtct tatcttcgat atctactact
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301 gagcagcgcg tgcgggacat ccagaagcag gtgcgggaat ggaaggagca
351 gggtagcaag accttcattg gcacggggcg ccctggctgg ctactgtct
401 cactacgtgt cgggaagtac aagaagacac aaaaaaacat catgatcaac
451 ctgatggaca ttctggaagt ggacaccaag aaacagattg tccgtgtgga
501 gcccttggtg accatgggac aggtgactgc cctgtgacc tccattggct
551 ggactctccc cgtgttgctt gagcttgatg acctcacagt ggggggcttg
601 atcatgggca caggcatcga gtcacatccc cacaagtacg gctgttcca
651 acacatctgc actgcttacg agctggtcct ggctgatggc agctttgtgc
701 gatgcactcc gtccgaaaac tcagacctgt tctatgccgt accctggtec
751 tgtgggacgc tgggtttcct ggtggscgct gagatccgca tcatccctgc
801 caagaagtac gtcaagctgc gtttcgagcc agtgcggggc ctggaggcta
851 tctgtgcaa gttcacccac gagtcccagc ggaggagaa ccacttcgtg
901 gaaggyctgc tctactcctt ggatgaggct gtcattatga caggggtcat
951 gacagatcag gcagagccca gcaagctgaa tagcattggc aattactaca
1001 agccttggtt ctttaagcat gtggagaact atctgaagac aaaccgagag
1051 ggcttgagat acattccctt gagacactac taccaccgcc acacgcgcag
1101 catcttcttg gagctccagg acatcatccc ctttggaac aacccatct
1151 tccgtacct ctttggtggt atggtgcctc ccaagatctc cctcctgaag
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1301 tccaaaacga cateccagtc taccatctct ggctgtgtcc gttcatcctg
1351 cccagccagc caggcctagt gcaccccaaa ggaaatgagg cagagctcta
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FIG. 14B

1401 catcgacatt ggagcatatg gggagccgcg tgtgaaacac tttgaagcca
1451 ggtcctgcat gaggcagctg gagaagtttg tccgcagcgt gcatggcttc
1501 cagatgctgt atgccgactg ctacatgaac cgggaggagt tctgggagat
1551 gtttgatggc tccttgatcc acaagctgcg agagaagctg ggttgccagg
1601 acgccttccc cgagggtgtac gacaagatct gcaaggccgc caggcactga
1651 gctggagccc gcctggagag acagacacgt gtgagtggtc aggcattctc
1701 ccttcaactca agcttggtcg ctttccatga tccacacttt caaagagaaa
1751 cccctccaga actcccaccc tgacagccca acaccacttt cctcctggtc
1801 tccagggggc agcccagtg aatggaaaga atgtgggatt tggagtga
1851 caagcctgag tccagttccc cgtttagaac tcattagctg tgtgactctg
1901 ggtgagtcce ttaacccctc tgagcccggtg tctcctcatt agttgaaagg
1951 gatagtaata cctacttgca ggtgtgtgtc atctgagttg agcactggtc
2001 acattgaagg tgctgggtaa gtggtagctc ttgttgcttc ccgttcagcg
2051 tcacatctgc agtggagcct gaaaaggctc cacattaggt cacctgtgca
2101 cagccatggc tggaatgatg aaggggatac gctggagttg ccctgccatc
2151 gcctccatca gccagacgag gtcctcacag gagaaggaca gctcttcccc
2201 accctgggat ctcaggaggg cagccacgga gtggggaggc cccagatgcg
2251 ctgtgccaaa gccaggtccg aggccaaagt tctccctgcc atccttggtg
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2351 caccactgag tccactcgga gtgccctgtg ttcctggaga aggcattcca
2401 gggttgaatc ttgtcccagc ctacgcctgg gacacctagg tggagagagt
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2851 ttatgcaac tctatcttaa gaactgccca gcctcagctg aaaacccgaa
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FIG. 15A

CDNA sequence comparison
KIAA0018/Seladin-1

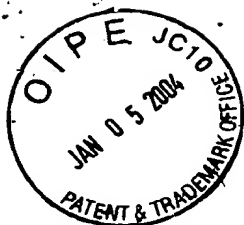
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1  ggcgcgaaacccgcagcgcttaccgcgcggcgccgcacccatggagcccgc  50
   ||||||||||||||||||||||||||||||||||||||||||||||||
62  ggcgcgaaacccgcagcgcttaccgcgcggcgccgcacccatggagcccgc  111
   ||||||||||||||||||||||||||||||||||||||||||||||||
51  gtgtcgctggccgtgtgcgcgctgctcttcctgctgtgggtgcgccctgaa  100
   ||||||||||||||||||||||||||||||||||||||||||||||||
112  gtgtcgctggccgtgtgcgcgctgctcttcctgctgtgggtgcgccctgaa  161
   ||||||||||||||||||||||||||||||||||||||||||||||||
101  ggggctggagttcgtgctcatccaccagcgctgggtgttcgtgtgcctct  150
   ||||||||||||||||||||||||||||||||||||||||||||||||
162  ggggctggagttcgtgctcatccaccagcgctgggtgttcgtgtgcctct  211
   ||||||||||||||||||||||||||||||||||||||||||||||||
151  tcctcctgccgctctcgcttatcttcgatatactactacgtgcgcgcc  200
   ||||||||||||||||||||||||||||||||||||||||||||||||
212  tcctcctgccgctctcgcttatcttcgatatactactacgtgcgcgcc  261
   ||||||||||||||||||||||||||||||||||||||||||||||||
201  tgggtggtgttcaagctcagcagcgctccgcgcctgcacgagcagcgcg  250
   ||||||||||||||||||||||||||||||||||||||||||||||||
262  tgggtggtgttcaagctcagcagcgctccgcgcctgcacgagcagcgcg  311
   ||||||||||||||||||||||||||||||||||||||||||||||||
251  gcgggacatccagaagcaggtgcgggaatggaaggagcagggtagcaaga  300
   ||||||||||||||||||||||||||||||||||||||||||||||||
312  gcgggacatccagaagcaggtgcgggaatggaaggagcagggtagcaaga  361
   ||||||||||||||||||||||||||||||||||||||||||||||||
301  ccttcattgtgcacggggcgccctggctggctcactgtctcactacgtgtc  350
   ||||||||||||||||||||||||||||||||||||||||||||||||
362  ccttcattgtgcacggggcgccctggctggctcactgtctcactacgtgtc  411
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351  gggaagtacaagaagacacacaaaaacatcatgatcaacctgatggacat  400
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412  gggaagtacaagaagacacacaaaaacatcatgatcaacctgatggacat  461
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401  tctggaagtggacaccaagaacagattgtccgtgtggagcccttgggtga  450
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462  tctggaagtggacaccaagaacagattgtccgtgtggagcccttgggtga  511
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451  ccatgggcccaggtgactgccctgctgacctccattggctggactctcccc  500
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701  gggtttcctggtggccgctgagatccgcattcatccctgccaagaagtacg  750
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762  gggtttcctggtggccgctgagatccgcattcatccctgccaagaagtacg  811
   ||||||||||||||||||||||||||||||||||||||||||||||||
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FIG. 15B

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801 ttcacccacgagtcacagcggcaggagaaccacttcgtggaagggctgct 850
|||||
862 ttcacccacgagtcacagcggcaggagaaccacttcgtggaagggctgct 911
851 ctactccctggatgaggctgtcattatgacaggggtcatgacagatgagg 900
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912 ctactccctggatgaggctgtcattatgacaggggtcatgacagatgagg 961
901 cagagcccagcaagctgaatagcattggcaattactacaagccgtggttc 950
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951 ttttaagcatgtggagaactatctgaagacaaaccgagagggcctggagta 1000
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1262 tgggtgcccatgaagtgcctgcagcaggccctgcacaccttccaaaacgac 1311
1250 atccacgtctaccccatctggctgtgtccgttcatectgcccagccagcc 1299
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1312 atccacgtctaccccatctggctgtgtccgttcatectgcccagccagcc 1361
1300 aggcctagtgcaccccaaaggaaatgaggcagagctctacatcgacattg 1349
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1362 aggcctagtgcaccccaaaggaaatgaggcagagctctacatcgacattg 1411
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1400 aggcagctggagaagtttgtccgcagcgtgcatggcttcagatgctgta 1449
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1500 ccttgtaccacaagctgcgagagaagctgggttgccaggacgccttcccc 1549
|||||
1562 ccttgtaccacaagctgcgagagaagctgggttgccaggacgccttcccc 1611



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FIG. 15C

1550 gaggtgtacgacaagatctgcaaggccgcccaggcactgagctggagcccg 1599
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1612 gaggtgtacgacaagatctgcaaggccgcccaggcactgagctggagcccg 1661
1600 cctggagagacagacacgtgtgagtggcaggcatcttcccttcaactcaa 1649
|||||
1662 cctggagagacagacacgtgtgagtggcaggcatcttcccttcaactcaa 1711
1650 gcttggctgctttcctagatccacactttcaaagagaaacccctccagaa 1699
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|||||
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2300 ccactcggagtgccctgtgttccctggagaaggcattccagggttgaatct 2349
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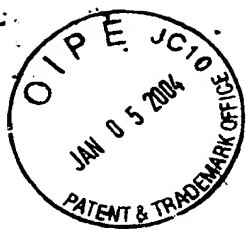
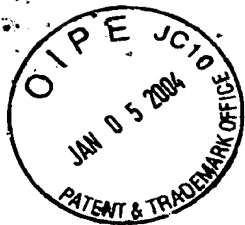


FIG. 15D

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|||||
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3162 gtcagaggaaaaatgatccagtggacacttggggattatctgtcattcaa 3211



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FIG. 15E

3150 gatccttccttcaaccccaaggccagctcccatctcatttccagaaaggc 3199
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3462 agaagaaagaaagaaacctcatcctatatattttacaaagcatgtgaattct 3511
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3512 ggcattagctctcataggagacccatgtgcttccttgctcagtgcaaaac 3561
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3550 gtgccattgttttgccagtgaagcctccaaccctaagccactgggacggc 3599
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3750 cttcttagcatggtgagctgagttcatggctttttttgtagccagtcct 3799
|||||
3812 cttcttagcatggtgagctgagttcatggctttttttgtagccagtcct 3861
3800 gtccctggccatccatgtgatgggttttgatggagttaaacttgatgcc 3849
|||||
3862 gtccctggccatccatgtgatgggttttgatggagttaaacttgatgcc 3911
3850 gtgggcagtgcatgtggaaagtatcagagtaagcctctcccctccagagc 3899
|||||
3912 gtgggcagtgcatgtggaaagtatcagagtaagcctctcccctccagagc 3961
3900 cctgagtttcttggtgcatgaagggttttctttagaatcagaattgtagc 3949
|||||
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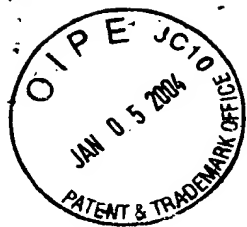


FIG. 15F

3950 cagtttctttggccagaaggatgaatacttggatattactgaaagggagg 3999
|||||
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|||||
4000 ggtggagatgggtgtggcagtgatcgggtgtgtgatttttattttcttctt 4049
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4162 acagccacaggcactgtgtctactgtctcgaagacatgtccccgtggctg 4211
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4150 tggggccgctgcttctgttttaaataaaaagtggcctgg 4186
|||||
4212 tggggccgctgcttctgttttaaataaaaagtggcctgg 4248
|||||